

PRINTED CIRCUIT EMBEDDED CAPACITORS

Abstract of the Disclosure

- 5 One of a plurality of capacitors embedded in a printed circuit structure includes a first electrode (415) overlaying a first substrate layer (505) of the printed circuit structure, a crystallized dielectric oxide core (405) overlaying the first electrode, a second electrode (615) overlying the crystallized dielectric oxide core, and a high temperature anti-oxidant layer (220) disposed between and
- 10 contacting the crystallized dielectric oxide core and at least one of the first and second electrodes. The crystallized dielectric oxide core has a thickness that is less than 1 micron and has a capacitance density greater than 1000 pF/mm². The material and thickness are the same for each of the plurality of capacitors. The crystallized dielectric oxide core may be isolated from crystallized dielectric
- 15 oxide cores of all other capacitors of the plurality of capacitors.